

I

Flight Scientist Report

Saturday 02/22/2020 ACTIVATE RF05

Flight Type: Statistical Survey Flight - Clouds

Flight Route: OXANA to 34.103/-72.479 to 35.587/-72.423; idea is to fly directly into wind and go upwind from 34.103/-72.479, which will be the circle bulls-eye point of the second flight of the day

Special Notes: King Air down due to maintenance

King Air

- NA

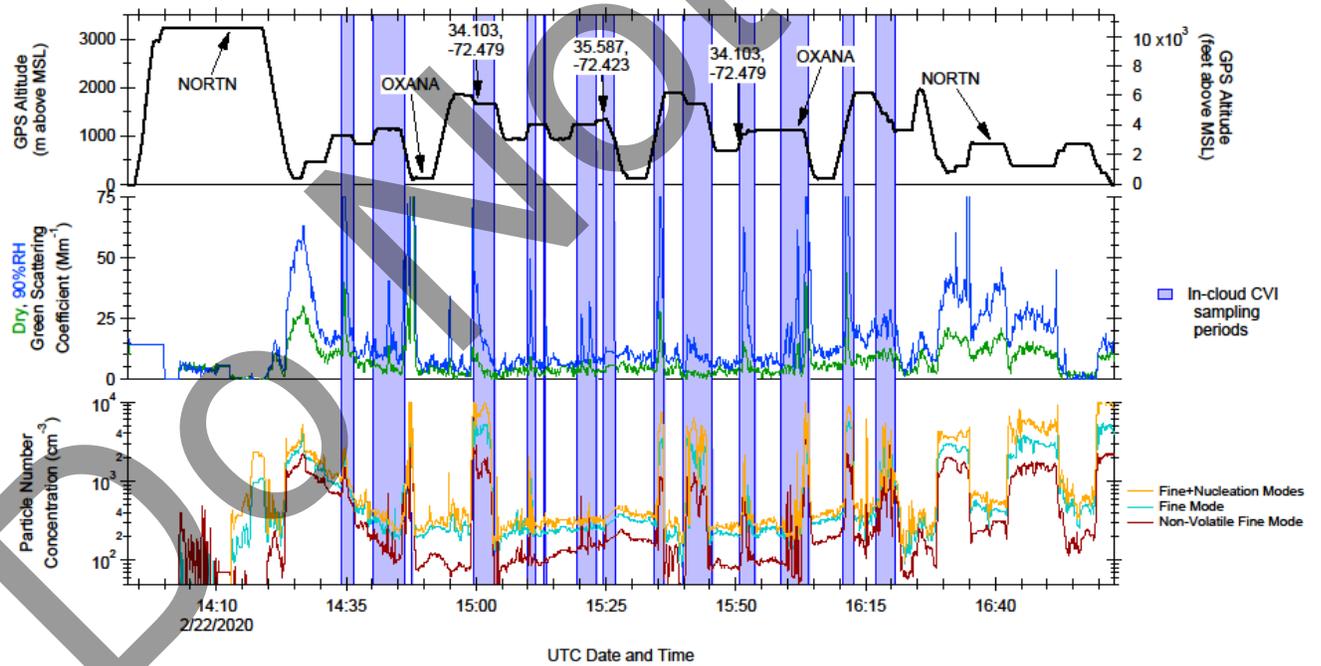
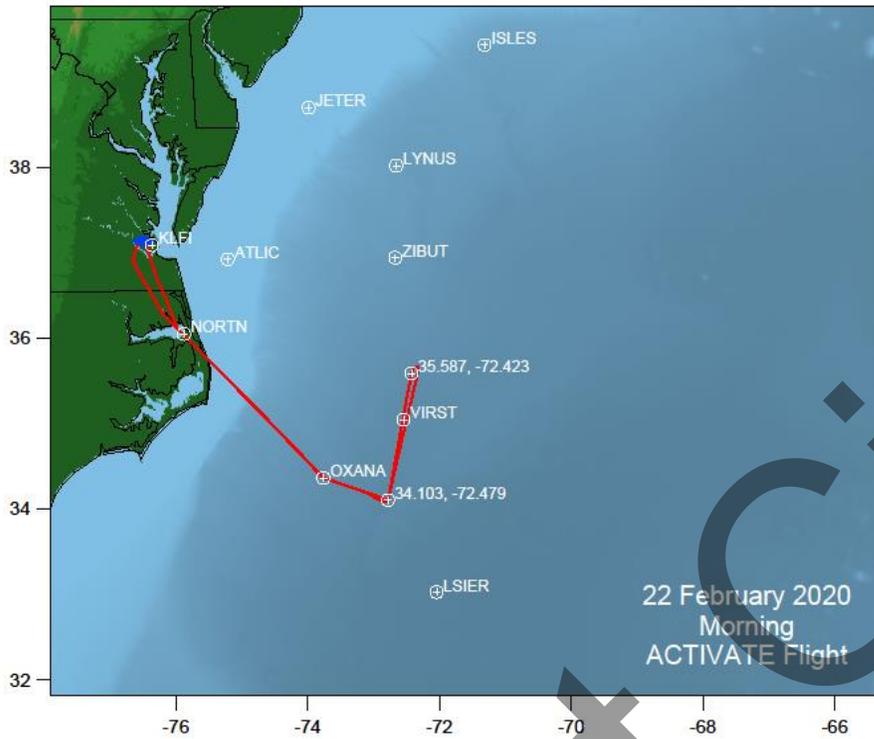
Falcon

- Bonus MINALT leg before first cloud stat survey
- 3 standard cloudy stat surveys today
- 1st cloud survey had a low altitude for first BCB and then had to climb a lot to hit ACB, whereas the 2nd BCB leg didn't require us to go as low as we now knew where the cloud bases were
- Bonus low altitude over land at end of flight

Instruments:

All fine

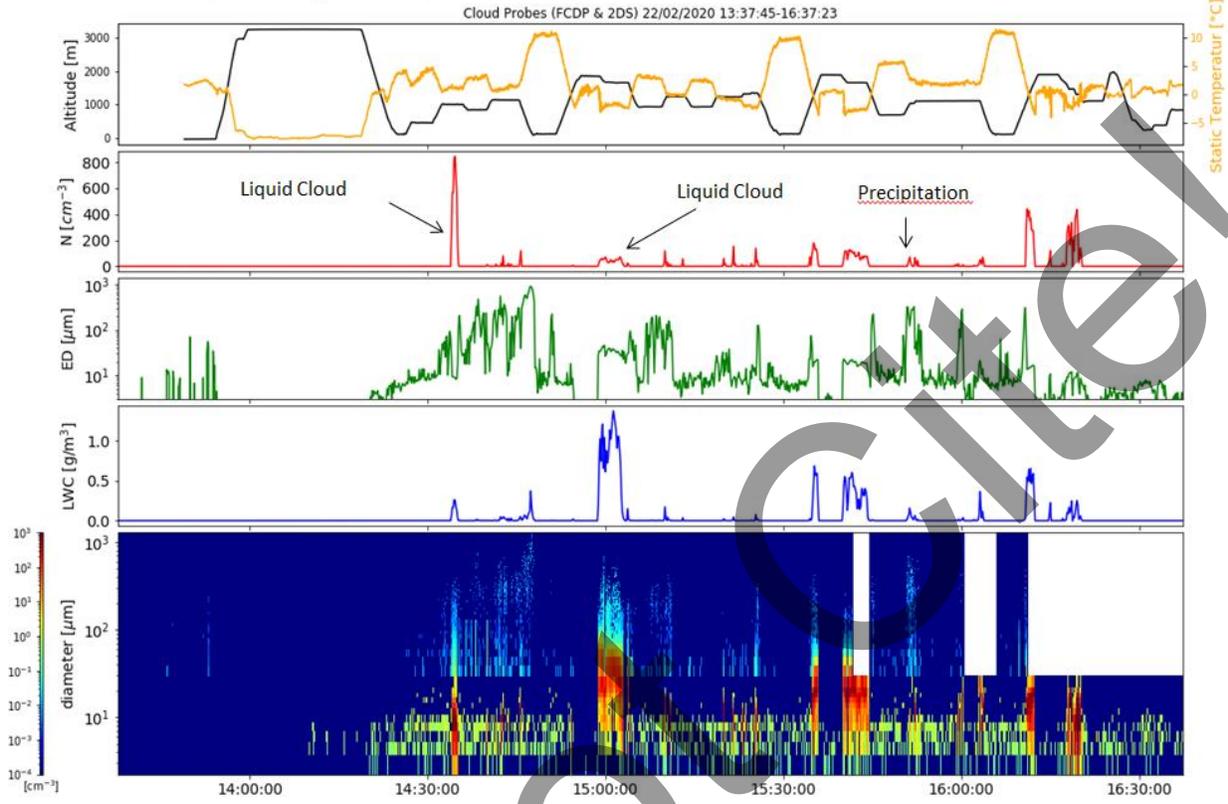
Rich Moore Quicklook Images:



Quicklook ACTIVATE Cloud Probes (FCDP & 2DS)

preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



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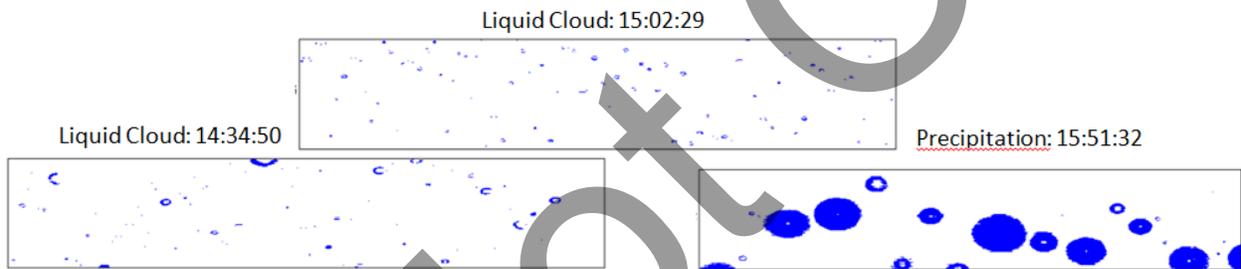
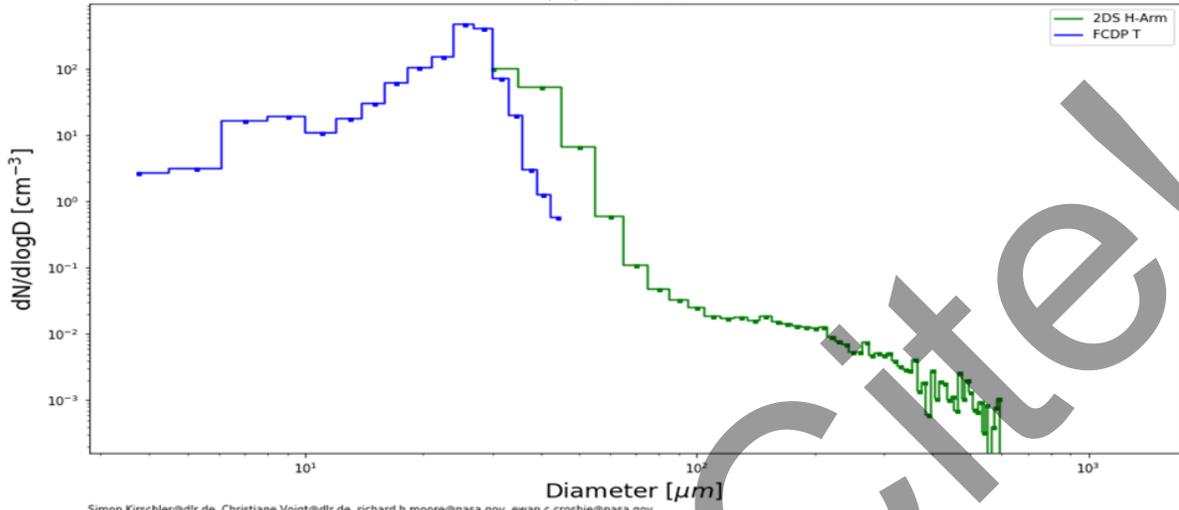
Do Not

PSD ACTIVATE

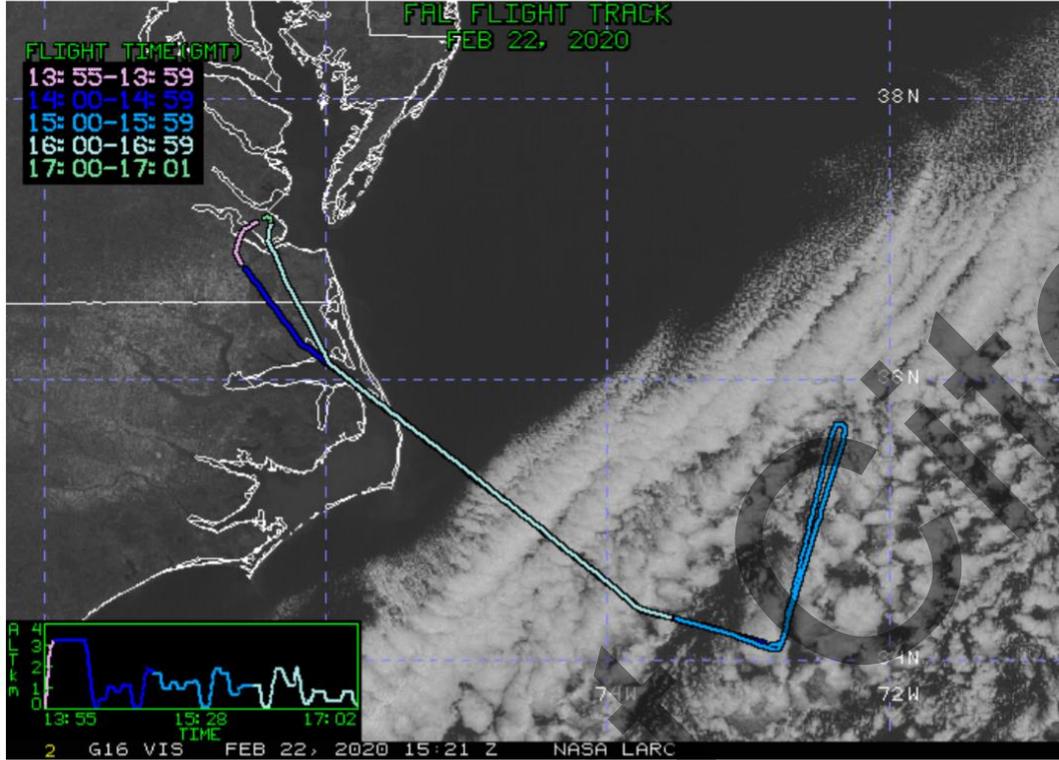
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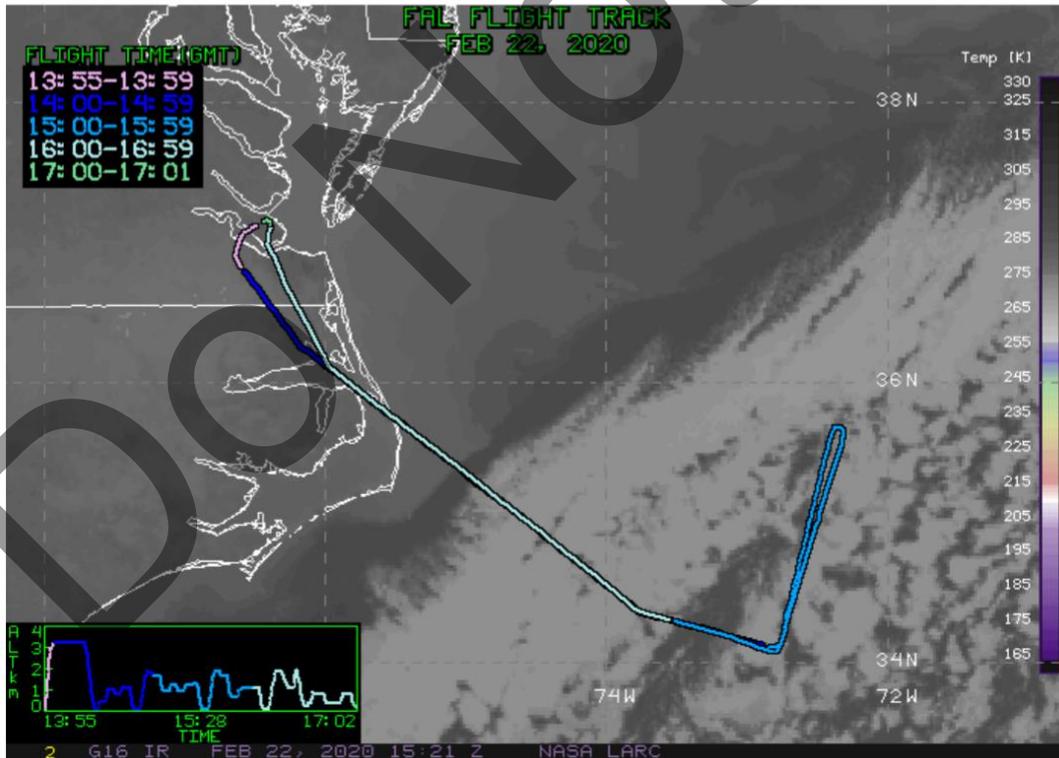
PSD 22/02/2020 15:01:10-15:02:55



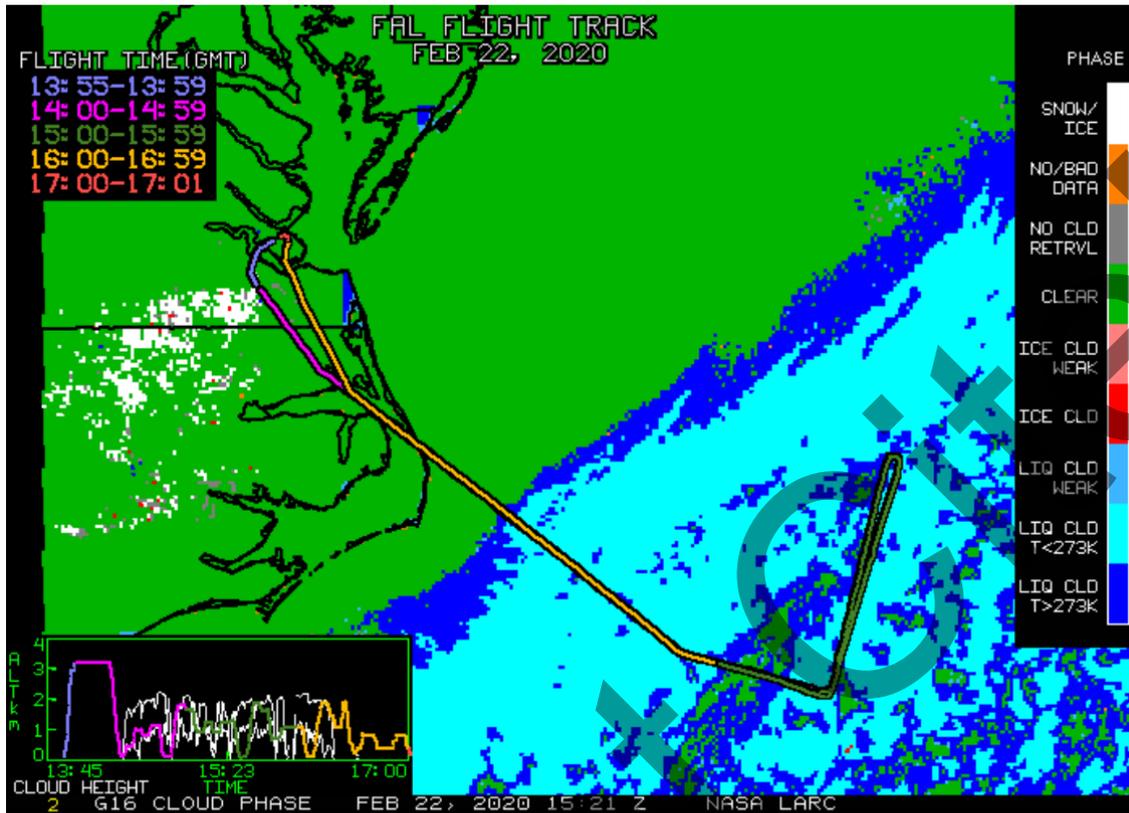
Satellite Group GOES-16 Images (near middle of flight):
Visible



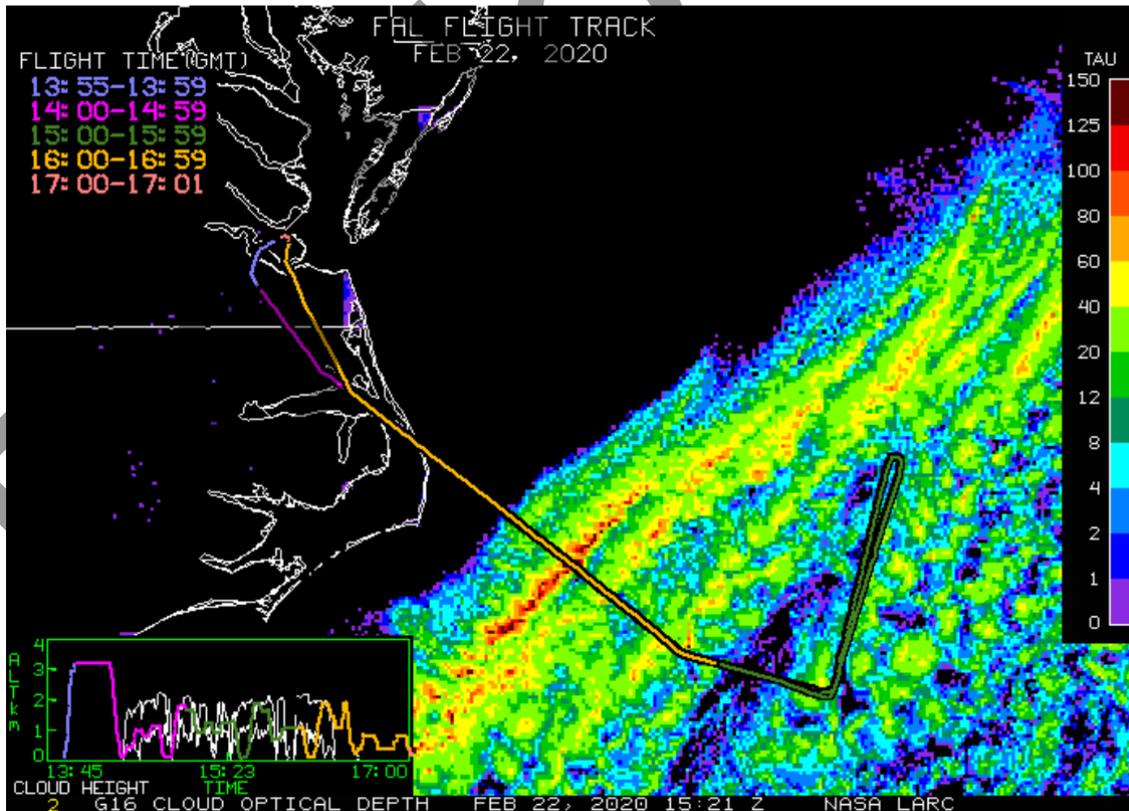
Infrared



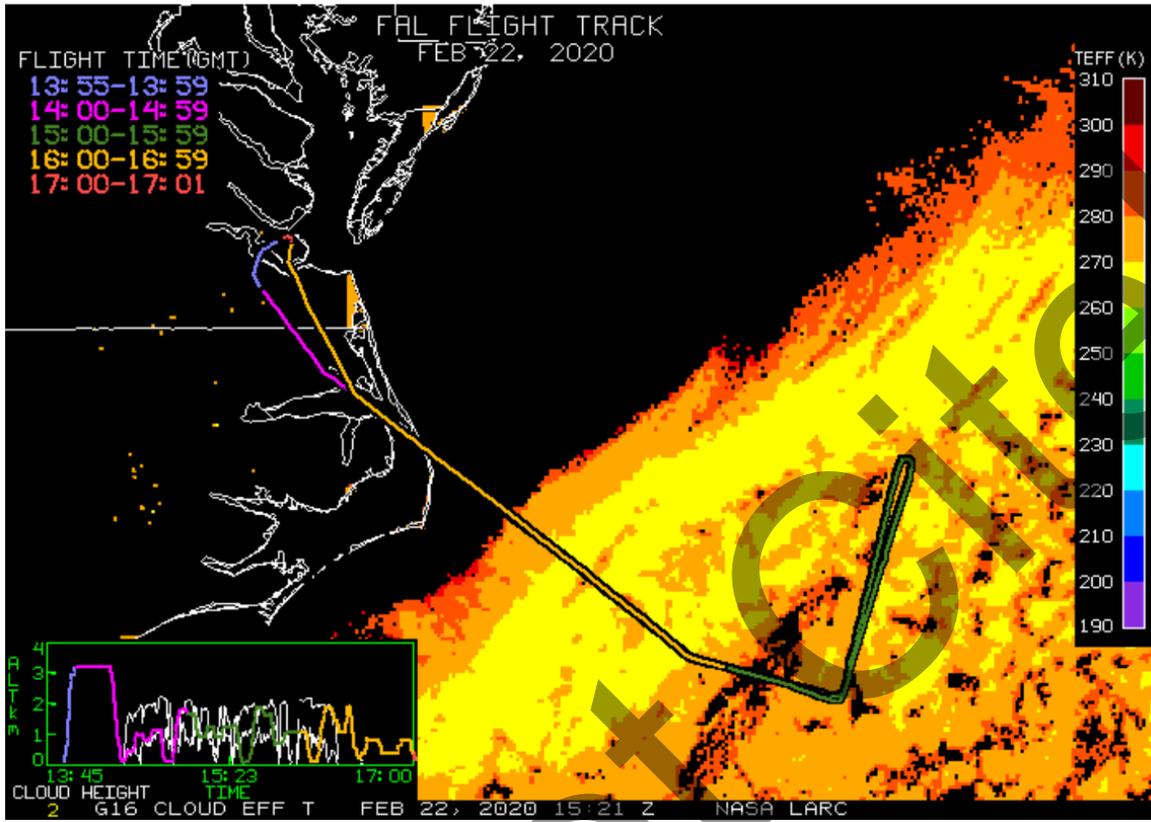
Cloud Phase



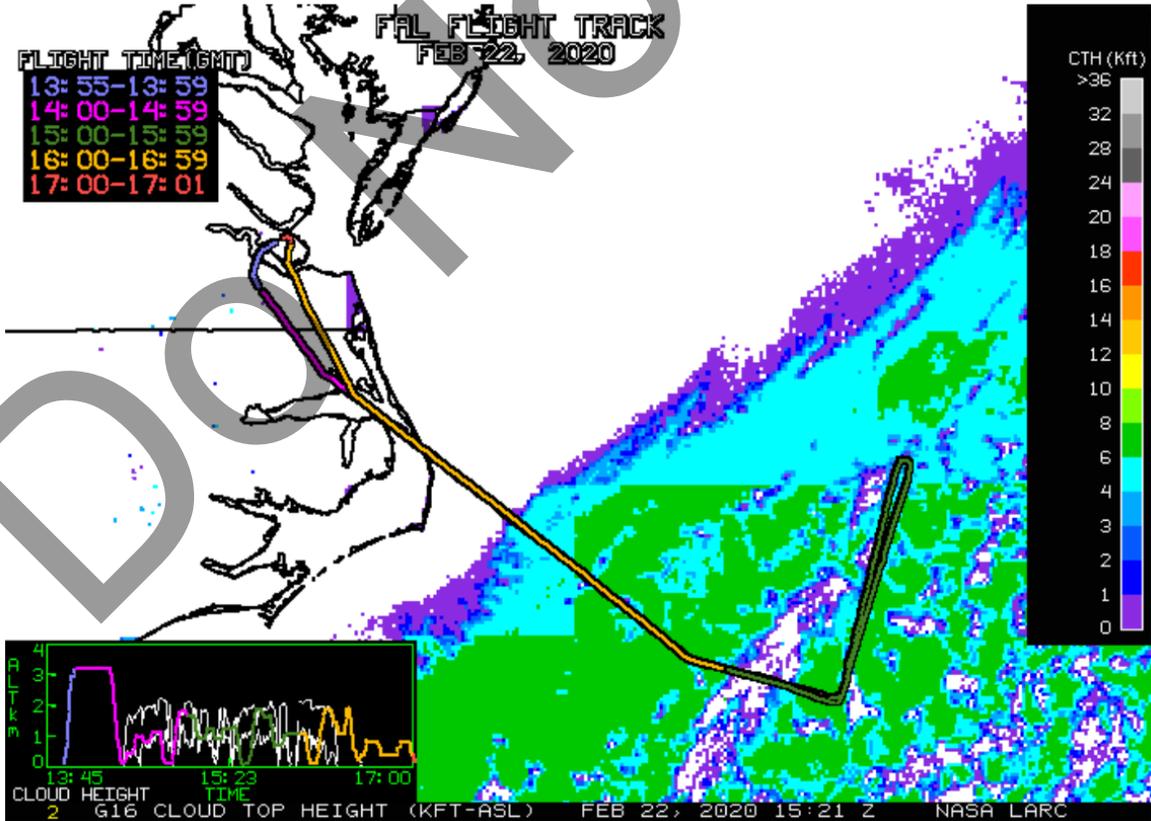
Cloud Optical Depth



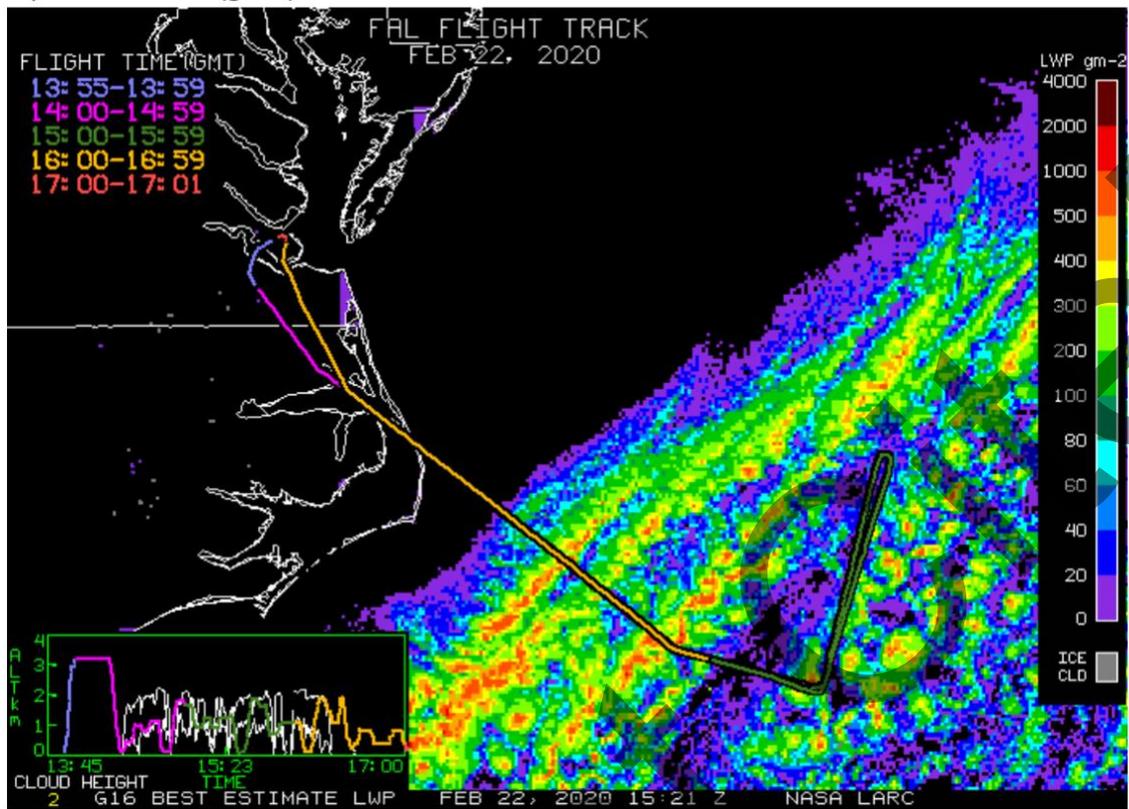
Cloud Effective Temperature (K)



Cloud-Top Height (Kft-ASL)



Liquid Water Path (gm-2)



Cloud Droplet Number Concentration (cm-3)

